



California ISO

Technology User Group (TUG)

September 17, 2019

10:00 – 11:00 AM Pacific

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TUG Agenda

Web Conference Information		Conference Call Information	
<i>URL</i>	https://caiso.webex.com/meet/CAISO-TUG	<i>Domestic Call-In</i>	(866) 528-2256
<i>Meeting Number</i>	966 010 353	<i>International Call-In</i>	(216) 706-7052
<i>Access Code</i>	389 588 9	<i>Access Code</i>	389 588 9

Topic	Facilitator
Agenda and Roll Call	Indu Nambiar
BSAP Update	Wendell Tamblyn
System Interface Changes	Trang Deluca
CMRI Improvements	Neela Alla
Ongoing Initiatives	Indu Nambiar

BSAP Update

- Tech Spec for BSAP has been updated with version 1.7.1
- [RetrieveBalancingTestResults_BSAPv2](#) had data type change for element aggregatedBSDeviation from string to integer
- Updated xsd for [BalancingTestResults](#) is available on the CAISO Developer site

System Interface Changes: MF

Release	Project	Change Type	API Service Name & Major Version, Artifacts	Minor Version	RDT	MAP Stage	Production Activation	Technical Specifications
Fall 2019	ESDER3A LMPME CCEDEBE1	Modify	RetrieveGeneratorRDT_MFRDv4 RetrieveGeneratorRDT_MFRDv4_DocAttach	20191001		Sep 5, 2019	Nov 13, 2019	5.1
Fall 2019	ESDER3A LMPME	Modify	SubmitGeneratorRDT_MFRDv4 SubmitGeneratorRDT_MFRDv4_DocAttach	20191001	GRDT v13.0	Sep 5, 2019	Nov 13, 2019	5.1

System Interface Changes: SIBR, BSAP

System	Release	Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
SIBR	Fall 2019	CCDEBE1	Modify	RetrieveCleanBidSet_SIBRv5 RetrieveCleanBidSet_SIBRv5_DocAttach	Oct 14, 2019	Dec 4, 2019	v13.1
SIBR	Fall 2019	CCDEBE1	Modify	RetrieveCurrentBidResults_SIBRv5 RetrieveCurrentBidResults_SIBRv5_DocAttach	Oct 14, 2019	Dec 4, 2019	v13.1
SIBR	Fall 2019	CCDEBE1	Modify	SubmitRawBidSet_SIBRv5 SubmitRawBidSet_SIBRv5_DocAttach	Oct 14, 2019	Dec 4, 2019	v13.1
BSAP	Fall 2019	EIM 2019	Modify	RetrieveBalancingTestResults_BSAPv2 RetrieveBalancingTestResults_BSAPv2_DocAttach	Sep 18, 2019	Nov 13, 2019	1.7.1

System Interface Changes: CMRI

Release	Project	Change Type	Customer Impact	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
Fall 2019	LMPME CCDEBE1	Modify	CAISO Market	Tab: Default Bids Existing Report: Default Energy Bid Curves	RetrieveDefaultBidCurves_CMRIv2 RetrieveDefaultBidCurves_CMRIv2_DocAttach	Sep 12, 2019	Nov 13, 2019	3.9.1
Fall 2019	CCDEBE1	Modify	CAISO Market	Tab: Default Bids Existing Report: Default Commitment Costs	RetrieveExternalDefaultCommitmentCost_CMRIv1 RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach	Oct 14, 2019	Dec 4, 2019	3.9.1
Fall 2019	EIM 2019	New	EIM	Tab: Energy Imbalance Market New Report: Resource Operating Limits	RetrieveEIMResourceOperatingLimit_CMRIv1 RetrieveEIMResourceOperatingLimit_CMRIv1_DocAttach	Oct 14, 2019	Nov 13, 2019	3.9.1
Fall 2019	EIM 2019	New	CAISO Market	Tab: Real-Time New Report: Resource Operating Limits	RetrieveResourceOperatingLimit_CMRIv1 RetrieveResourceOperatingLimit_CMRIv1_DocAttach	Oct 14, 2019	Nov 13, 2019	3.9.1

System Interface Changes: OASIS

Release	Project	Change Type	Customer Impact	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Production Activation	Technical Specifications
Fall 2019	EIM 2019	New		Tab: ENERGY New Report: Transmission Loss	ENE_TRANS_LOSS	Oct 14, 2019	Nov 13, 2019	5.1.9

CMRI Improvements

CAISO is planning CMRI UI Upgrade & Performance Improvements

- Performance Improvements
 - Technology/Infrastructure Upgrade
 - Data Model Normalization
 - Data migration needed due to data model normalization for **schedules and schedule prices**
 - Data migration process has been verified in Non-Production environment. Current Plan:
 - » Complete the data migration and cut over to new UI and performance improvements.
 - » After cutover, users will have access to all the data.
 - » ISO will communicate CMRI performance improvements patch deployment time line.
- Market Participant Testing prior to Production deployment.
 - UI is available for testing in MAP Stage environment as of June 6, 2019
 - API is available for testing in MAP Stage environment as of June 26 2019
- NO API interface changes and NO functionality changes.
- CAISO requests to use the latest supported version as mentioned in the Tech Specs for application programming interfaces (API)
- Please refer to latest tech specs on <https://developer.caiso.com>









CMRI UI changes that are expected as part of this effort were presented in the TUG call on May 14, 2019 and can be found at:

http://www.caiso.com/Documents/Agenda-TechnicalUserGroupWebConference-May14_2019.pdf

CMRI Improvements

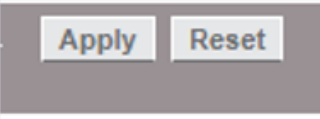

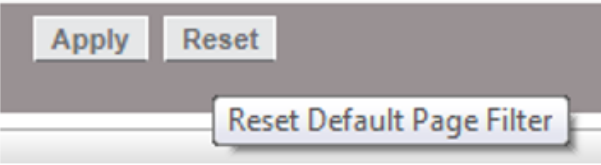
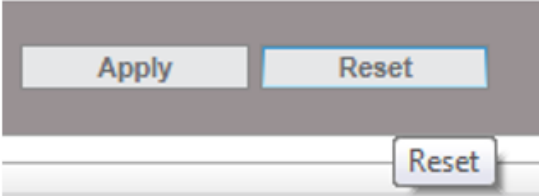
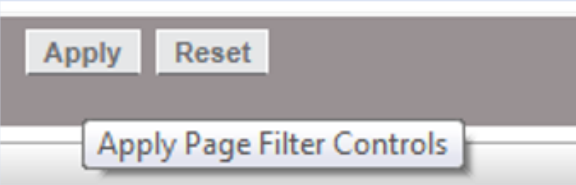
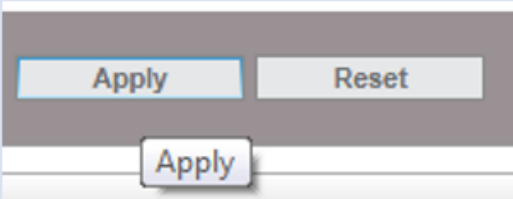
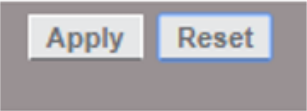

CAISO is planning CMRI UI Upgrade & Performance Improvements

- Graphical User-Interface update v7.0.0
 - Look-and-Feel: Text color, command buttons, icons, drop-down
 - Similar to OASIS changes currently in Production

	Existing	New Release
Page Header:	<p>Blue line</p> 	<p>No Blue line</p> 
Hover-over App header icons:	<p>Icon: Blue Highlight</p> 	<p>Icon: Yellow/Black Pointer</p> 
Stop Loading:	<p>“Display loading has been stopped. Click here to refresh” does not appear</p> 	<p>“Display loading has been stopped. Click here to refresh” appears at the bottom of the page</p> 
Report Name:	<p>Black Font</p> 	<p>Dark Grey Font</p> 

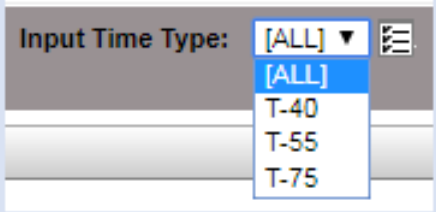
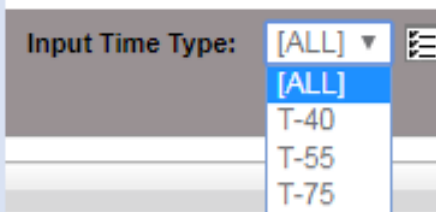
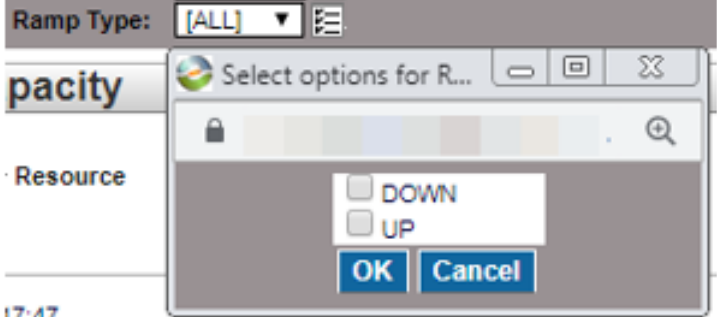
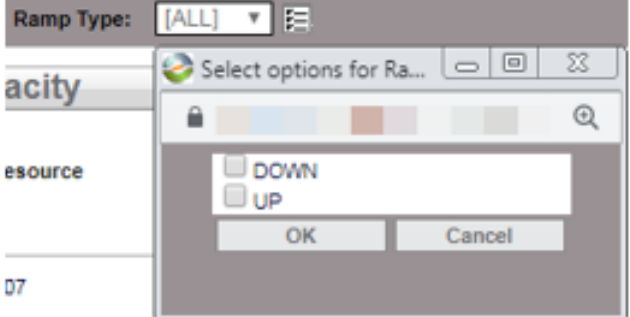
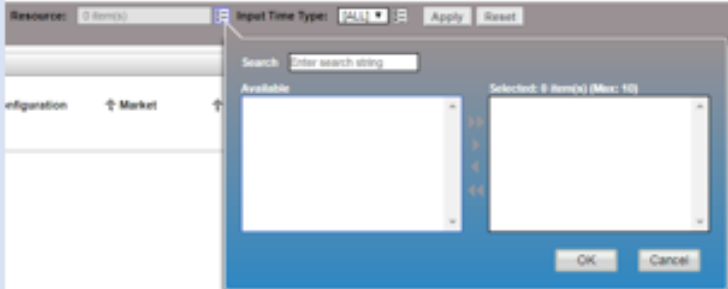
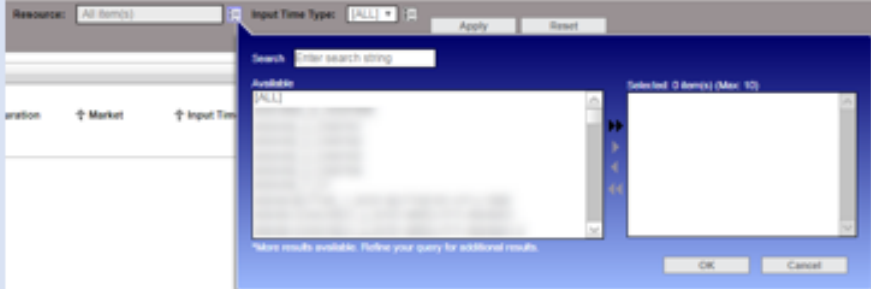
CMRI Improvements

- Graphical User-Interface update v7.0.0

Buttons:	Aligned: Top 	Aligned: Center 
Hover-over:	Tool Tip: Reset Default Page Filter 	Tool Tip: Reset 
Hover-over:	Tool Tip: Apply Page Filter Controls 	Tool Tip: Apply 
Click:	Border: Blue Line 	Border: Dotted Line 






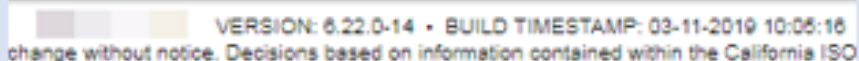
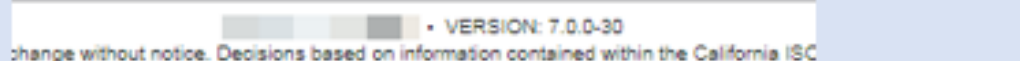


CMRI Improvements

- Graphical User-Interface update v7.0.0

<p>Drop-down list of values:</p>	<p>Black Font</p> 	<p>Dark Grey Font</p> 
<p>Multi select:</p>	<p>Blue Buttons with White Font</p> 	<p>Grey buttons with Black Font</p> 
<p>Dynamic multi select:</p>	<p>No list of values by default; Gradient grey-to-blue background</p> 	<p>List of values appear by default; Gradient navy blue-to-blue background</p> 

CMRI Improvements

- Graphical User-Interface update v7.0.0

Processing:	<p>No page loading animation</p> 	<p>Page loading animation</p> 
Scroll bar:	<p>Scroll bar comes up on page load</p> 	<p>Scroll bar does not come up on page load</p>  <p>Scroll bar comes up when needed</p> 
Build Timestamp:	<p>Displayed in Application Footer</p> 	<p>No longer Available</p> 
No Data		

CMRI Improvements

– Graphical User-Interface update v7.0.0 – KNOWN ISSUES

	Existing	New Release
Copy Paste		
Clicking Reset button, after a query completes still displays record count		
Clicking Last Page icon takes user to first page of report, reading 0 - 19 of ???		
Entering a record number more than the total number of possible records and clicking on Go, takes user to random page and the Export icon disappears		
Entering a record number, in the move to record field and hitting Enter from keyboard, will go to the next record on the current page instead of the actual record		

Ongoing Initiatives

CRR Revenue Adjustments report to be removed from CMRI

Background:

- January 2019 – deployed CRR Revenue Adjustments report
- March 2019 – deployed CRR Revenue Adjustments Details report
 - The Details report contains all the data the Summarized report and is provided for each CRR at a unique source and sink location
 - The Details report has data back to January 2019

CAISO will remove CRR Revenue Adjustments report effective with the 2019 Fall Release activation

- CMRI tech specs were updated 7/19/2019
- BPMs update is forthcoming

Fall 2019 - Technical Specification Updates

The technical specification updates for all applications that are impacted for Fall 2019 are detailed in the agenda for the TUG call on May 28, 2019 and can be found at:

<http://www.caiso.com/Documents/Agenda-TechnicalUserGroupWebConferenceMay282019.pdf>

Revised Technical Specification Template

CAISO Technical Specification template changes

- Standardization
- Efficient
- Lean

Proposed changes include:

- Document release notes with service level change details
- Sample XMLs posted outside the document
- Simplified element table to remove redundant information
- Section for service specific use model
- Consolidated list of service artifacts for supported versions

Revised template is available at:

<http://www.caiso.com/Documents/TechnicalSpecification-Template-TechnicalUserGroup.pdf>

Standardization of time format for data submissions & data requests

- ISO is implementing the use of standard date time format for all B2B data submissions
- Current formats that are accepted:
 - 2019-07-10T00:00:00-07:00 – offset of 7 hours based on Pacific Daylight Time
 - 2019-01-20T00:00:00-08:00 – offset of 8 hours based on Pacific Standard Time
 - 2019-01-20T08:00:00-00:00 – Timestamp in GMT/UTC
 - 2019-07-10T07:00:00Z – Timestamp in GMT/UTC
- Future acceptable formats (to match the response from ISO):
 - 2019-04-20T07:00:00-00:00 – Timestamp in GMT/UTC
 - 2019-04-20T07:00:00Z – Timestamp in GMT/UTC
 - OR
 - 2019-12-20T08:00:00-00:00 – Timestamp in GMT/UTC
 - 2019-12-20T08:00:00Z – Timestamp in GMT/UTC
- Implementation Plan
 - Technical Specifications Updated with accepted format - Fall 2019 Release
 - Enforcement of new format - **Fall 2020 Release**

Next TUG: Oct 01, 2019

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